

## **FIRE DEPARTMENT MECHANIC**

(Competitive Class)

### **DISTINGUISHING FEATURES OF THE CLASS**

This class encompasses positions in the repair and maintenance of fire department vehicles and equipment. Employees of this class make repairs to fire apparatus and fire apparatus equipment, perform maintenance tasks and adjustments on fire department vehicles and equipment, and organizes replacement parts for fire vehicles and equipment. Incumbents of this class diagnose mechanical problems and conduct safety inspections on all departmental vehicles. Fire Department Mechanics perform duties independently in most areas, performing special task assigned with only general instructions, and report to and have work reviewed by the Fire Chief.

### **EXAMPLES OF WORK**

Examples listed below are illustrative only. They are not intended to include all duties which may be assigned, neither are they intended to exclude other duties which may be logical assignments to this class.

Performs maintenance, repairs or adjustments on cooling, fuel, lubricating and electrical systems of fire department apparatus and vehicles. Ensures proper working order to systems by installing replacement parts, such as fan and fan belts, fuel lines and filters, oil seals and PCV systems, batteries, spark plugs and cables and other parts as necessary. Performs maintenance, repairs or adjustments on brake, drive train, emission and suspension systems. Installs necessary replacement parts to such systems, such as replacing drum, disc or power brakes, clutches and transmissions, mufflers, tires and wheel bearings.

Performs maintenance and repairs to gasoline engines which may include the installation or replacement of intake and exhaust manifolds, cylinder heads, crankshaft, gaskets or valves. Performs maintenance and repairs to diesel engines which may include adjusting or replacing scavenging-air compressors, governors, fuel spray nozzles and turbochargers. Repairs fire apparatus hydraulic equipment, such as pumps, aerial ladders, and hydraulic motors and cylinders. Inspects, maintains, and repairs fire hoses, hose couplings and attachments on fire apparatus.

Performs general maintenance tasks on departmental vehicles and fire apparatus, such as refueling vehicles, changing and adding oil, and adjusting headlights, as needed in order to assure peak performance. Replaces and installs accessories on automotive equipment, such as windshield wipers, lights and flashers as

needed. Changes air filters on air conditioning and heating systems. Uses automotive maintenance instruments in the maintenance or repair of fire automotive equipment.

Provides for the repair and maintenance on portable equipment and small power tools, such as portable generators and pumps, power saws and water towers, lawn mowers and edgers, and any department equipment as required. Refills self-contained breathing apparatus using the cascade system. Installs, maintains, and repairs overhead doors.

Diagnoses mechanical problems from information received from fire department personnel. Reads service manuals, parts books, and any other written material necessary to determine how to perform required repairs and maintenance duties. Makes mathematical calculations in order to perform accurate and correct measurements, adjustments, or calibrations.

Conducts required safety inspections on all department vehicles, including inspecting equipment after repair. Determines if firefighting apparatus involved in an accident is safe for continued use.

Locates and arranges for outside services for repair and maintenance of department equipment or vehicles when needed. Transports, delivers, and pick ups equipment for repair or maintenance by driving department vehicles. Inspects, tests and ensures completed repairs from outside services on all vehicles and equipment, including communications equipment, were effectively accomplished.

Maintains inventory of supplies and parts necessary to perform the work in the maintenance division. Organizes and stores supplies and parts as required. Assists the Fire Chief in the purchase of supplies, equipment and parts which may include meeting with sales representatives, reviewing products and evaluating specifications for purchases within the maintenance division. Assists the Fire Chief in preparing expenditure estimates. May gather information to be used in compiling budgets.

Completes any forms and records required.

Performs any related duties assigned.

#### **QUALIFICATION REQUIREMENTS**

Unless otherwise specified, all requirements listed below must be met by the filing deadline for application for admission to the examination.

Must meet all requirements of the Municipal Fire and Police Civil Service Law, including being a citizen of the United

States and of legal age.

After offer of employment, but before beginning work in this class, must pass a physical examination, the selection and administration of which shall be authorized by the Appointing Authority, designed to demonstrate good health and physical fitness sufficient to perform the essential duties of the position, with or without accommodation.

Must have a high school diploma or a valid certificate of equivalency issued by a state department of education.

Must possess a valid driver's license.

Must not be less than 18 years of age.